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THE HORN SPEAKER

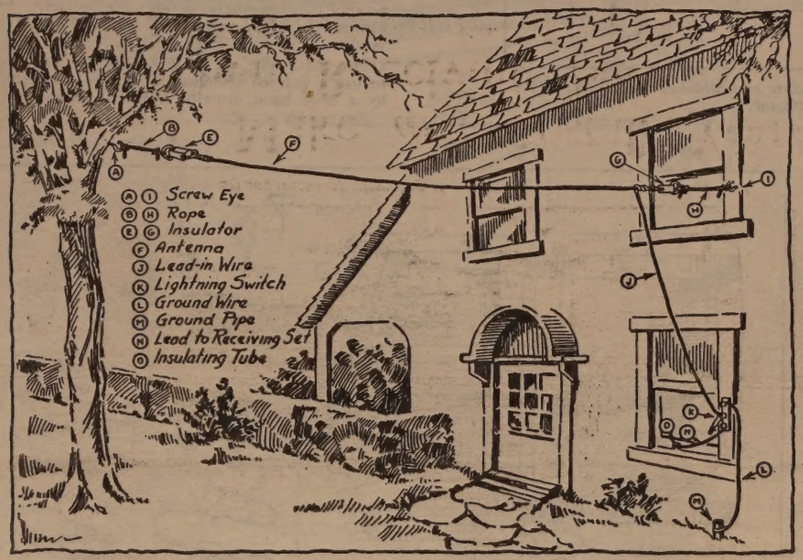

FIGURE 1; *A simple arrangement of stringing the antenna between a house and tree.*

How *to* Make *and* Install Your Own Receiving Set

If You Are Handy With Tools You Can Follow These Directions

By WATSON DAVIS

IF you are handy with tools, you may make your own radio receiving set that will be quite good enough to admit you into the vast throng of listeners who are enjoying the musical programs that now fill the ether practically every night. Uncle Sam, as evidence of his helpful interest in his enterprising young nephew, the radio amateur, has carefully worked out a list of detailed instructions that tell him just how to make such a set —at a cost ranging from $11.00 to $15.00.

The problem of working out a practical set of instructions for making this home-made receiving set was delegated to the Bureau of Standards at Washington. This set will enable one to hear the messages sent out from medium-power transmitting stations within an area about the size of a large city, or to hear high-power stations within fifty miles—providing those stations use wavelengths between 600 and 200 meters; that is, wave frequencies between 500 and 1500 kilocycles a second.

Here are the directions:

The Five Parts of a Receiving Station

There are five essential parts of the set; the antenna, the lightning switch, ground connections, the receiving set and the phone. The received signals come into the set through the antenna and ground connection. In the receiving set these signals are converted into an electric current which produces the sound in the phone. The phone is either one or a pair of telephone receivers, worn on the head of the listener. The purpose of the lightning switch is to protect the receiving set from damage by lightning. It is used to connect the antenna directly to the ground when the receiving station is not being used. When the antenna and the connection to the ground are properly made and the lightning switch is closed, an antenna acts as a lightning rod and is a protection rather than a source of danger to the building. The principal part of the station is the receiving set. In the set described herein it is subdivided into two parts, the "tuner" and the "detector", and in more complicated sets still other elements are added.

What the "Antenna" and "Ground" Is

The antenna is simply a wire suspended between two elevated points. Wherever there are two buildings, or a house and a tree, or two trees with one of them very close to the house, it relieves one of the need of erecting one or both antenna supports. The antenna should not be less than thirty feet above the ground and its length should be about 75 feet, as shown in Fig. 1. While this illustration indicates a horizontal antenna, it is not important that it be strictly horizontal; it is in fact desirable to have the far end as high as possible. The "lead-in" wire or drop-wire from the antenna itself should run as directly as possible to the lightning switch. If the position of the adjoining buildings or trees is such that the distance between them is greater than about 85 feet, the antenna may still be held to a 75-foot distance between the insulators by increasing the length of the piece of rope, B, to which the far end of the antenna is attached. The rope, H, tieing the antennae insulator to the house should not be lengthened to overcome this difficulty, because by so doing the antenna "lead-in" or drop wire, J, would be lengthened.

The Parts of the Antenna

A and I are screw eyes sufficiently strong to anchor the antenna at the ends.

B and H are pieces of rope 3-8 or 1-2 inch in diameter, just long enough to allow the antenna to swing clear of the two supports.

E and G are two insulators which may be constructed of any dry hard wood of sufficient strength to withstand the strain of the antenna; blocks about 1 1-2x2x10 inches will serve. The holes should be drilled (as shown in Fig. 1) sufficiently far from the ends to give proper strength. If wood is used, the insulators should be boiled in paraffin for about one hour. If porcelain wiring cleats are available they may be substituted instead of the wood insulators. If any unglazed porcelain is used as insulators, it should be boiled in paraffin the same as the wood. Regular antenna insulators are advertised on the market, but the two improvised types just mentioned will be satisfactory for an amateur receiving antenna.

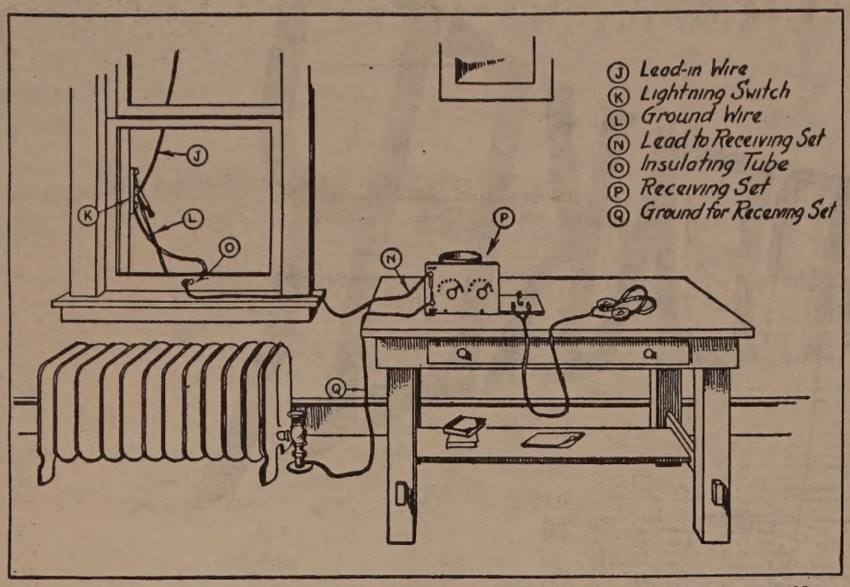

FIGURE 2; *How the lead in wire is brought through the window and attached to the set. Note the ground connection on the radiator.*

F is the antenna about 75 feet between the insulators E and G. The wire may be No. 14 or 16 copper wire either bare or insulated. The end of the antenna farthest from the receiving set may be secured to the insulator, E, by any satisfactory method, but be careful not to kink the wire. Draw the other end of the antenna wire through the other insulator, G, to a point where the two insulators are separated by about 75 feet, twist the insulator, G, so as to form an anchor as shown in Fig. 1. The remainder of the antenna wire, J, which now constitutes the lead-in or drop-wire, should be just long enough to reach the lightning switch.

K is the lightning switch. For the purpose of a small antenna this switch may be the ordinary porcelain-base, 30 ampere, single pole double-throw battery switch. These switches, as ordinarily available, have a porcelain base about 1 by 4 inches. The lead-in wire, J, is attached to this switch at the middle point. The switch blade should always be thrown to the ground clip when the receiving set is not actually being used and to the receiver clip when it is desired to receive signals.

L is the ground wire for the lightning switch; it may be a piece of the same size wire as used in the antenna, of sufficient length to reach from the ground clip of the lightning switch, K, to the clamp on the ground rod, M.

M is a piece of iron pipe or rod driven 3 to 6 feet into the ground, preferably where the ground is moist, and extending a sufficient distance above the ground in order that the ground clamp may be fastened to it. Scrape the rust or paint from the pipe before driving in the ground.

N is a wire leading from the receiver clip of the lightning switch through the porcelain tube, O, to the receiving set binding post marked "antenna".

O is a porcelain tube of sufficient length to reach through the window casing or wall. This tube should be mounted in the casing or wall so that it slopes down toward the outside of the building. This is done to keep the rain from following the tube through the wall to the interior.

The Parts of the Receiving Set

P is the receiving set, which is described in detail.

N is the wire leading from the antenna binding post of the receiving set through the porcelain tube to the upper clip of the lightning switch. This wire, as well as the wire shown by Q, should be insulated and preferably flexible. A piece of ordinary lamp cord might be unbraided and serve for these two leads.

Q is a piece of flexible wire leading from the receiving set binding post marked "ground" to a water pipe, heating system or some other metallic conductor to ground, except M (Fig. 1). If there are no water pipes or radiators in the room in which the receiving set is located, the wire should be run out of doors and connected to a special ground below the window, which shall not be the same as the ground for the lightning switch. It is essential that for the best operation of the receiving set this ground be of the very best type. If the soil near the house is dry it is necessary to drive one or more pipes or rods sufficiently deep to encounter moist earth and connect the ground wire to the pipes or rods. This distance will ordinarily not exceed 6 feet. Where clay soil is encountered this distance may be reduced to 3 feet, while in sandy soil it may be increased to 10 feet. If some other metallic conductor, such as the casing of a drilled well, is not far away from the window, it will be a satisfactory "ground."

The Tuner, the Detector, and the Phone

The detector and phone will have to be purchased. The tuner and certain accessories can be made at home.

The tuner, R (shown in Fig. 3), is a piece of cardboard or other non-metallic tubing with turns of copper wire wound around it. The cardboard tubing may be an oatmeal box. Its construction is described in detail below.

The crystal detector, S (in Fig. 3), may be of very simple design and quite satisfactory. The crystal, as it is ordinarily purchased, may be unmounted or mounted in a little block of metal. For mechanical reasons the mounted type may be more satisfactory, but that is of no great consequence. It is very important, however, that a very good tested crystal be used; it is probable also that a galena crystal will be more satisfactory to the beginner. The crystal detector may be made up of a tested crystal, three wood screws, short piece of copper wire, a nail, set-screw type of binding post, and a wood knob or cork. The tested crystal is held in position on the wood base by three brass wood-screws as shown at 1 in Fig. 3. A bare copper wire may be wrapped tightly around the three brass screws for contact. The assembling of the rest of the crystal detector is clearly shown in Fig. 3.

For the phone, T, in Fig. 3 it is desirable to use a pair of telephone receivers connected by a head band, usually called a double telephone headset. The telephone receivers may be any of the standard commercial makes having a resistance of between 2000 and 3000 ohms. The double telephone receivers will cost more than all the other parts of the station combined, but it is desirable to get them, especially if one plans to improve his receiving set later. If one does not care to invest in a set of double telephone receivers a single telephone receiver with a head band may be used, although it gives results somewhat less satisfactory.

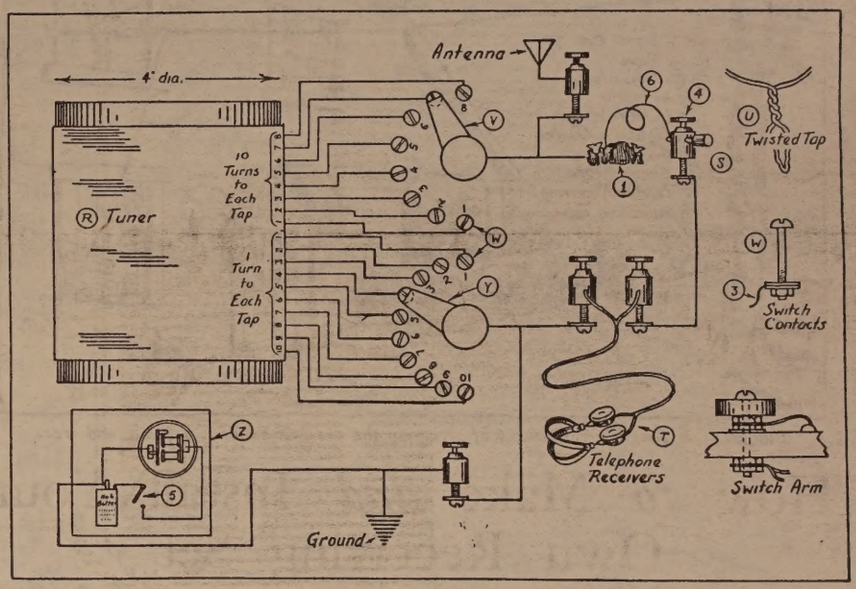

FIGURE 3; *How to connect the instruments. (The buzzer test is shown in the lower left corner.)*

The binding posts, switch arms and switch contacts may all be purchased from dealers who handle such goods or they may be quite readily improvised at home. There is nothing peculiar about the pieces of wood on which the equipment is mounted. They may be obtained from a dry packing-box and covered with paraffin to keep out moisture.

The following is a detailed description of the method of winding the coil, construction of the wood panels, and mounting and wiring the apparatus.

(page 4)

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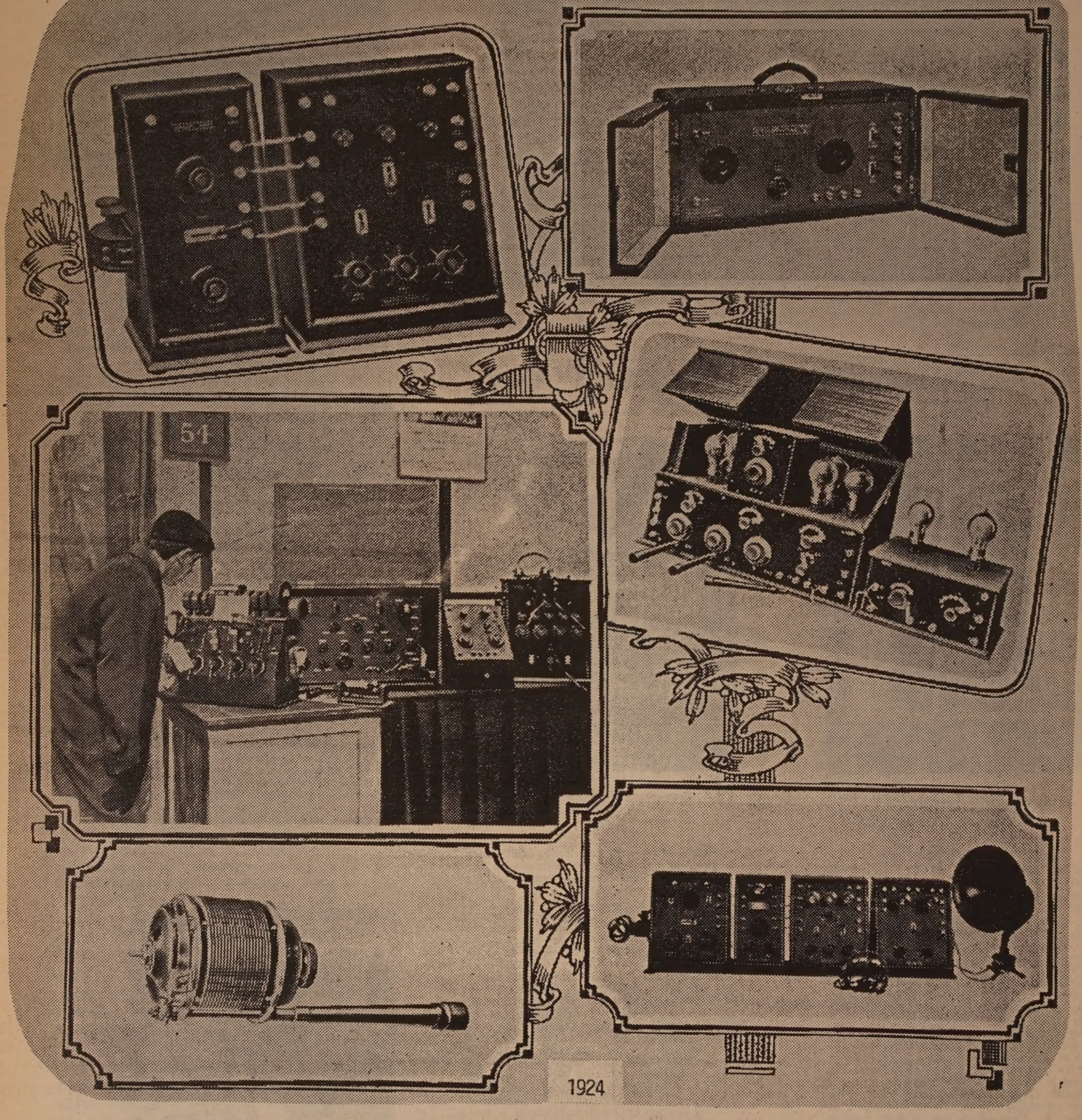
The London Radio Show



These pictures of the 1924 London Radio turned out so poorly in the December 1987 issue of THE HORN SPEAKER that we decided to run them again. The pictures illustrate what was typical of the style then in vogue in Europe.

The upper pictures show a honeycomb coil tuner with detector and amplifier in two separate units. To the right is a Ethophone by Burndept, a seller of quality English receivers. The main feature of this portable was that required only a short wire for an aerial. The large photograph show several European receivers-- plug in transformers. The French receiver in the right center picture would be a real thrill for a collector. The Burndept radio system with stages of tuned radio frequency amplification, detector, a two stage audio amplifier, and even with a power amplifier. All added up to the top of the state of the art for 1924. On the left is a fancy French made variable condenser with a long handle to control the vernier.

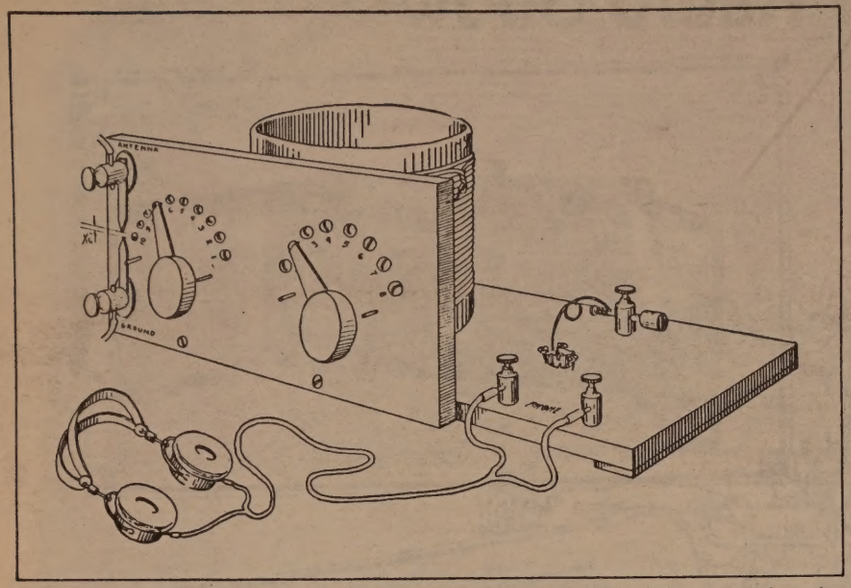
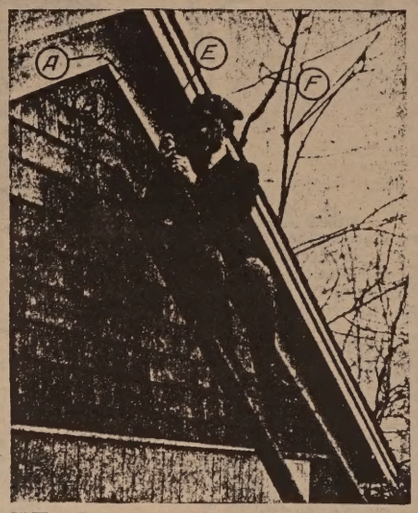


FIGURE 4; *The completed receiver, with the two sets of wavelength switches mounted on the panel and the crystal detector in a convenient place for adjustment.*

I *Fastening the insulated lead in wire to the antenna wire. F is the antenna wire, G is the insulator; H is a piece of rope, I a screw eye and J the lead in wire.*



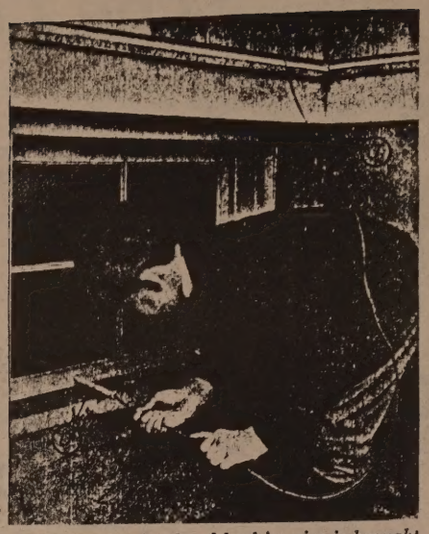
II *Fastening the far end of the antenna through the metal eye of the insulator. A is the screw eye, B a piece of rope, the insulator and F the antenna wire.*

How to Construct the Tuner

See the tuner, R, Fig. 3. Having supplied oneself with a piece of cardboard tubing 4 inches in diameter and about ½ pound of No. 24, or No. 26, double cotton covered copper wire, one is ready to start the winding of the tuner. Punch two holes in the tube about ½ inch from one end as shown at 2 in Fig. 3. Weave the wire through these holes in such a way that the end of the wire will be firmly anchored, leaving about 12 inches of the wire free for connections. Start with the remainder of the wire to wrap the several turns in a single layer about the tube, tightly and closely together. After 10 complete turns have been wound on the tube hold those turns snugly while a tap is being taken off. This tap is made by making a 6-inch loop of the wire and twisting it together at such a place that it will be slightly staggered from the first tap. This method of taking off taps is shown clearly at U, Fig. 3. Proceed in this manner until 6 twisted taps have been taken off at every 10 turns. After these first 70 turns have been wound on the tube then take off a 6-inch twisted tap for every succeeding single turn until 10 additional turns have been wound on the tube. After winding the last turn of wire anchor the end by weaving it through two holes punched in the tube much as was done at the start, leaving about 12 inches of wire free for connecting. It is to be understood that each of the 18 taps is slightly staggered from the one just above, so that the several taps will not be bunched along one line on the cardboard tube. See Fig. 3. It would be advisable, after winding the tuner as just described, to dip the tuner in hot paraffin. This will help to exclude moisture.

How to Make the Panel and Base

Having completed the tuner to this point, set it aside and construct the upright panel shown in Fig. 2. This panel may be a piece of wood approximately ½ inch thick. The position of the several holes for the binding post, switch arms and switch contacts may first be laid out and drilled. The antenna and ground binding posts may be ordinary ⅛ inch brass bolts of sufficient length and supplied with three nuts and two washers. The first nut binds the bolt to the panel, the second nut holds one of the short pieces of stiff wire, while the third nut holds the antenna or ground wire, as the case may be. The switch arm with knob shown at V, Fig. 3, may be purchased in the assembled form or it may be constructed from a thin slice cut from a broom handle and a bolt of sufficient length equipped with four nuts and two washers, together with a narrow strip of thin brass somewhat as shown. The switch contacts, W (Fig. 3), may be of the regular type furnished for this purpose or they may be brass bolts equipped with one nut and one washer each or they may even be nails driven through the panel with an individual tap fastened under the head or soldered to the projection of the nail through the panel. The switch contacts should be just close enough that the switch arm will not drop between the contacts but also far enough apart that the switch arm can be set so as to touch only one contact at a time.

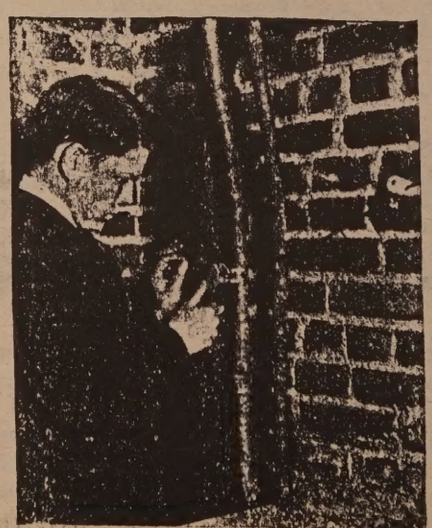


III *The insulated lead in wire is brought into the house through a porcelain bushing pushed through a hole drilled in the window sash.*

The telephone binding post should preferably be of the set screw type, as shown at X, Fig. 3.

How to Connect the Wires

Having constructed the several parts just mentioned and mounted them on the wood base, one is ready to connect the several taps to the switch contacts and attach the other necessary wires. Scrape the cotton insulation from the loop ends of the sixteen twisted taps as well as from the ends of the two single wire taps coming from the first and last turns. Fasten the bare ends of these wires to the proper switch, as shown by the corresponding numbers in Fig. 3. One should be careful not to cut or break any of the looped taps. It would be preferable to fasten the connecting wires to the switch contacts by binding them between the washer and the nut, as shown at 3, Fig. 3. A wire is run from the back of the binding post marked "ground" (Fig. 3), to the back of the left-hand switch-arm bolt, Y, thence to underneath the left-hand binding post marked "phones." A wire is then run from underneath the right-hand binding post marked "phones" to underneath the binding post, 4 (Fig. 3), which forms a part of the crystal detector. A piece of No. 24 bare copper wire about 2½ inches long, one end of which is twisted tightly around the nail, the nail passing through binding post 4, the other end of which rests gently by its own weight on the crystal 1. The bare copper wire which was wrapped tightly around the three brass wood-screws holding the crystal in place



IV *How the ground lead is attached to the water pipe by means of a ground clamp. Q is the ground wire.*

On the Air
by durell roth

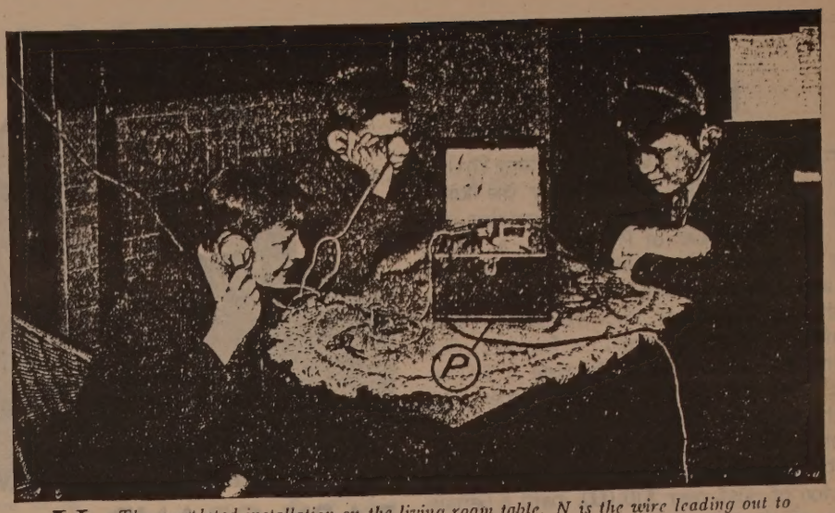
Radio, as we know it today, started with the KDKA broadcast of the Warren G. Harding election results in November 1920. From the time of that broadcast, radio developed at a feverish pace and by 1922 there were 1.5 million receiving sets in American homes and more than 550 stations around the country with at least one in every state.

In 1926, the first network, the National Broadcasting Company (NBC) was formed with David Sarnoff as its president. NBC was actually two networks, known as "red" and "blue" because of the colored lines used to connect the stations on company maps. The red network (NBC-red) emanated from station WEAF in New York while "the blue network" (NBC-blue) was based at WJZ originally in Newark. For the first time, reliable nationwide broadcasting was possible through the chain of 102 NBC affiliates. The formation and success of NBC had an important and unexpected result: the creation, in 1927, of a rival network, the Columbia Broadcasting System (CBS), ultimately headed by William S. Paley.

Network programing also developed rapidly. Comedy, drama and music programs could be heard clearly, through network affiliates from coast-to-coast. And shows like Amos 'n' Andy, Grand Central Station and performances of the Metropolitan Opera Company became an integral part of our daily listening habits. News and information from almost anywhere in the world was now instantly available in our homes, and people were awed by the apparent scope of this new entertainment medium and its ability to grip and manipulate the imagination.

At no other time has the aforementioned power of the electronic word been so demonstrated as on Halloween eve in 1938 when Orsen Wells and the Mercury Theater "... annihilated the entire world before your very ears and utterly destroyed the CBS." A nation listened, believed and panicked at the realistic sounds of a fictitious invasion from the planet Mars. Radio was powerful, well established and had begun to change our lives for ever.

Relive the excitement and romance of those early radio days with rebroadcasts offered by many AM and FM stations around the country. Table I is a list of a few stations broadcasting Old Time Radio (OTR). A complete guide to OTR broadcasts is available from Jay Hickerson, Box 4321, Hamden, CT 06514. Jay also publishes the longest running newsletter, "Hello Again" (HA), that deals with OTR programing. He also offers a large collection of related material, such as lists of collectors and sources of radio shows, tips on dubbing, etc. All are available when subscribing to HA at $10.00 per year.



The completed installation on the living room table. N is the wire leading out to the lightning switch, (which most amateurs do not provide, although it is a good protection against electrical storms). Q is the ground wire and P is the receiving set.

is led to and fastened at the rest of the right-hand switch arm bolt, V, thence to the upper left-hand binding post marked "antenna." As much as possible of this wiring is shown in Fig. 3.

How to Make the Set Work

After all the parts of this crystal-detector radio receiving set have been constructed and assembled the first essential operation is to adjust the little piece of wire, which rests lightly on the crystal, to a sensitive point. This may be accomplished in several different ways; the use of a miniature buzzer transmitter is very satisfactory. Assuming that the most sensitive point on the crystal has been found by method described in the following paragraph, *the Test Buzzer*, the rest of the operation is to get the radio receiving set in resonance or in tune with the station from which one wishes to hear messages. The tuning of the receiving set is attained by adjusting the inductance of the tuner. That is, one or both of the switch arms are rotated until the proper number of turns of wire of the tuner are made a part of the metallic circuit between the antenna and ground, so that together with the capacity of the antenna the receiving circuit is in resonance with the particular transmitting station. It will be remembered that there are 10 turns of wire between each of the first 8 switch contacts and only one turn of wire between each two of the other contacts. The tuning of the receiving set is best accomplished by setting the right-hand switch arm on contact 1 and rotating the left-hand switch arm over all its contacts. If the desired signals are not heard, move the right-hand switch arm to contact 2 and again rotate the left-hand switch arm throughout its range. Proceed in this manner until the desired signals are heard.

It will be advantageous for the one using this radio receiving equipment to find out the wave frequencies, wavelength, used by the several radio transmitting stations in his immediate vicinity.

How to Use the Test Buzzer

It is easy to find the more sensitive spots on the crystal by using a test buzzer. The test buzzer is used as a miniature local transmitting set. When connected to the receiving set, as shown at Z (Fig. 3), the current produced by the buzzer will be converted into sound by the telephone receivers and the crystal, the loudness of the sound depending on what part of the crystal is in contact with the fine wire. To find the most sensitive spot connect the test buzzer to the receiving set, as directed, close the switch, 5, Fig. 3, and, if necessary, adjust the buzzer armature so that a clear note is emitted by the buzzer, set the right-hand switch arm on contact point No. 8, fasten the telephone receivers to the binding posts marked "phones", loose the set screw of the binding post slightly and charge the position of the fine wire, 6, Fig. 3, to several positions of contact with the crystal until the loudest sound is heard in the phones, then tighten the binding post set screw, 4, slightly.

Popular Radio, May 1922

TABLE I

WBBM-AM	780 KHz	CHICAGO	MWF, SUN	8PM	CST
KOMA-AM	1560 KHz	OKLAHOMACITY	M-F	11 PM-MID	"
KOMA-AM	1560 KHz	OKLAHOMACITY	SUN	6 PM-MID	"
KTRH-AM	740 KHz	HOUSTON	SUN	9:30-11 PM	"
WXYZ-AM	1270 KHz	DETROIT	M-F	11 PM-MID	"
KLBJ-AM	590 KHz	AUSTIN	SUN	3-5 PM	"
WSM-AM	650 KHz	NASHVILLE	SAT	8 PM	" *

*WSM does not run OTR but does broadcast one of the oldest radio shows on the air, "The Grand Ole Opry," live every Saturday night.

PHILCO

Throughout most of its long history Philco has been well known for its goods for the home. Frank S. Marr and four business associates organized the forerunner of Philco as a small producer of carbon arc street lamps during the spring and summer of 1892. For the first few months they called their firm the Spencer Company, after Thomas Spencer, a founder. But later in 1892 they changed the name to Helios Electric Company, and incorporated under that name with Marr as president, a post that he held until his death on December 1, 1916. Helios struggled into life with an initial capitalization of just over $10,000, paid a German firm also of the name Helios, to use that company's patents and processes, and limped along on the verge of bankrupctcy for several years.

Lack of business forced the directors to shut the plant for two weeks in August of 1893. In 1899. the carbon arc lamp business came to a standstill, and the directors sold certain assets to a new company, Helios-Upton Company of New Jersey.

Five years later, Frank Marr and the other directors were told that remaining Helios assets would bring only 20 cents on the dollar at receiver's sale. Rather than sell at that price, the directors liquidated some receivables and managed to keep the company in business.

Helios resumed manufacturing in 1904. After entering the electric storage battery business, the directors changed the name in 1906 to Philadelphia Storage Battery Company.

Expanding business led to the acquisition of a factory site at Emerald and Tioga Streets in 1907.

By 1910 the Company was soundly financed. A profit of $30,517 was reported to the directors on July 23, 1910; they immediately distributed $25,900 among themselves. The new Company produced storage batteries for electric automobiles, truck and mine locomotives, and later home charging radio batteries. The first major seller was a rectifier that permitted the radio owner to operate his set from household current without batteries.

More than a million of those devices, called "Socket Power" units had been sold by 1927, when the invention of alternating current vacuum tube made "A" rectifiers unnecessary and virtually wiped out the Company's main business. Facing a corporate catastrophe, Philadelphia Storage Battery Company decided to manufacture radios. By the end of 1927 the firm had produced only 96,000 radios and was 26th in the nation among radio makers.

Radios at the time were handmade and priced for relatively wealthy consumers.

The Philadelphia firm decided that prices could be scaled for a mass market by incorporating assembly line techniques then used only in the automobile business.

The Company borrowed $7 million to retool and equip for mass production and made the system work in the face of industry predictions of sudden failure. At the end of 1929, the Company was producing the only popularly priced home radio, the "Baby Grand," was in second place in the industry, and was beginning to reap the benefits of the assembly line.

BABY GRAND

MODEL 20B
7 TUBES TRF $49.50 NEW
1930

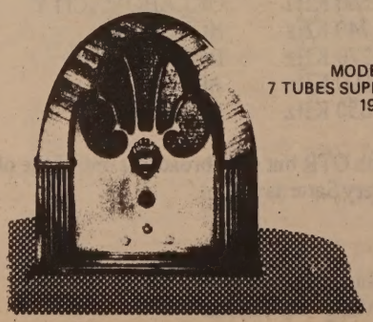
In 1930 Philco repaid the entire $7 million, sold 600,000 radios, grossed $34 million, and was the leading radio maker in the country. Shortly after 1930 the Company captured 30 per cent of the domestic radio market.

The name Philco first appeared in 1919 as the trademark on a battery but did not become the Company's official name until incorporation in 1940. Philco remained a publicly held company from 1940 until December 11, 1961, when it became a wholly owned subsidiary of Ford Motor Company.) Philco began work in television in 1928 with research into a mechanical system. In 1931 an electronic system came under study.

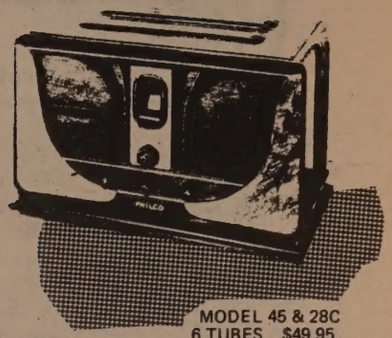
Experimental television broadcasting station W3XE was licensed on June 28, 1932, one of the first all-electronic television stations in the United States. Philco operated the station commercially under the call letters WPTZ from 1941 to 1953.

The Company was among the first to introduce a consumer television receiver, prior to World War II. In 1938 Philco entered the air conditioning and refrigeration fields. In 1948 in conjunction with Columbia Records, Philco introduced the world's first phonograph for long play records, opening that whole new entertainment area.

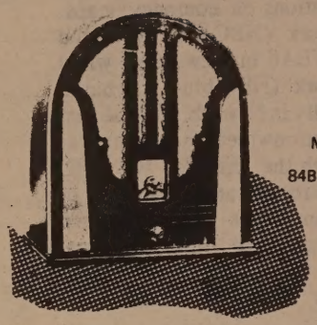
Any more information about Philco? If so, please let us know.



MODEL 70B
7 TUBES SUPERHET $49.95
1931

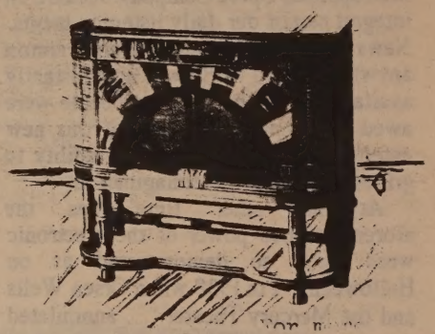


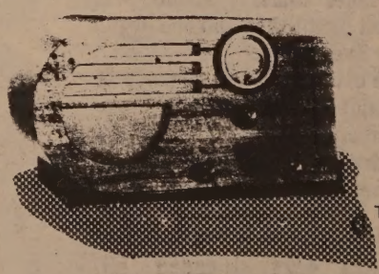
MODEL 45 & 28C
6 TUBES $49.95
58,300 1934



MODEL 33B & 84B
33B: $39.95
84B : 4 TUBES, $20.00
1936

MODEL 507L
RADIO-PHONO
8 TUBES 1934





TRANSITONE 610T
ALL-WAVE
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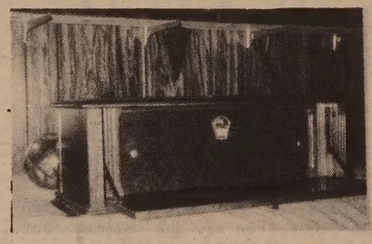

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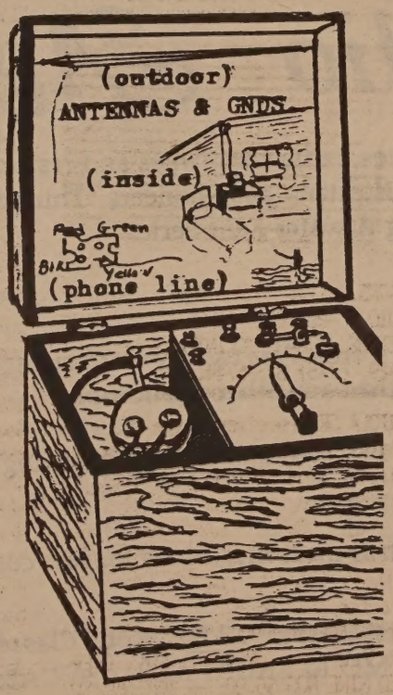

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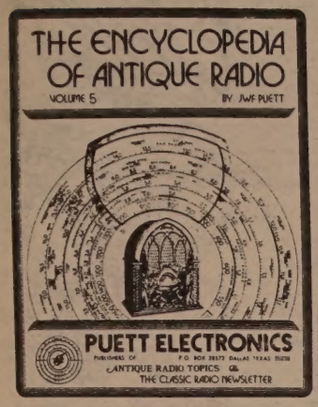

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KAWEHI PL., KULA, HAW 96790 (808) 878-6374.

WANTED — NORTHERN ELECTRIC decals or any information as to source. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada T6H 0H9.

WANTED —— CABINET FOR CAPEHART ORCHESTROPE JUKE BOX. J. JOHNSON, BOX 17, FOWLERVILLE, MI 48836. (517) 223-8417.

WANTED: ANY ALLIED RADIO CATALOGS, DATED BETWEEN 1938 TO 1941. I BUY CRYSTAL RADIOS. SEND INFO TO- RICHARD SPRATLEY, 2112 McLAIN STREET, CHESAPEAKE, VA 23324. (804) 545-2402.

WANTED — MANUFACTURED CRYSTAL SETS 1906 - 1930: units, history, pictures, schematics, manufacturer's literature, parts, etc. for material for a book on crystal sets of that era. Credits given and costs covered. Write me and let me know what you have. Dr. B. Turke, 660 N. Dixie Highway, Hollywood, FL 33020.

RADIOLA I (made by GE) and Radiola IIIA. For more information contact: Andy McKenzie, Box 1872, Medley, Alberta CANADA T0A 2M0.

WANTED: TRANSFORMERS used in the HEATH model W5M power amplifier, output & power. Hajime Funakosh, 98 Minami-:kedacho. Yuwakura, Sakyo-ku, Kyoto, 606, JAPAN.

WANTED- SW3 NATIONAL receiver with plug-in coils or coils alone. (2)Victor no. 4 phono reproducer that is restorable. (3) Source of black brushing wrinkle or crackle paint. T. A. Drogoski, 507 Coal Valley Road, Clairton, PA 15025.

WANTED: DIAL AND SWITCH KNOB for Crosley model 148, original or close to original. Gary Cappoen, 18025 NE Chehalem Drive, Newberg, OR 97132.

WANTED: OLD HAM SETS, CB's, military sets, manuels, etc. Working or not, WOOD, 7304 Dixon Avenue, Tampa, FL 33604.

WANTED: AK CATALOGS, OWNER'S MANUALS, SIGNS, POSTERS, PLAYING CARDS, ETC., ANY FACTORY ADVERTISING MATERIAL; AK 35, SN LOWER THAN 730,000 AND HIGHER THAN 1,000,000) AK 36, (SN LOWER THAN 2,610,000) AK 48, (SN BETWEEN 644,000 AND 950,000) MODEL R POWER SUPPLY, MODEL R HORN, MODEL K SPEAKER, AK 30 (SN OVER 1,000,000) RAYMOND THOMPSON, 7422 CHERRY TREE DRIVE, FULTON, MD 20759.

WANTED: WESTERN ELECTRIC AND RCA MICROPHONES, WALTER F. TURNER, P O BX 13069, ARLINGTON, TX 76094. (817) 261-6700.

WANTED— PLASTIC FRONT PLATE with numbers for RCA Victor 525 & glass plate for Westinghouse Model 780 B & Y. Myles Henderson, 10 Dunrobin Drive, Dartmouth, Nova Scotia, Canada, B2X 1J4 or call (902) 462-5236.

WANTED: HARD RUBBER PANEL at least 10"x11"x1/4". Also 215 peanut tubes (VT-5) dead or alive. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada, T6H 0H9.

WANTED: ZENITH STRATOSPHERE. Good condition with minimum rust. Will pay top price and arrange packing and shipping. Call (808) 878-6374 or John Baldwin, 210 Kawehi Pl., Kula, HI 96790.

WE TAKE THE LIBERTY HEREWITH TO INTRODUCE OURSELVES AS BEING A LONG ESTABLISHER IMPORTER OF ANTIQUE MECHANICAL MUSIC. —— ALWAYS WANTED —— VINTAGE & ANTIQUE RADIO, HORN SPEAKER, VINTAGE T.V., CATHEDRAL RADIO, GRAMOPHONES, PHONOGRAPHS, POLYPHONES, CRYSTAL SETS, MUSICAL BOXES, TYPEWRITER, SEWING MACHINES, TELEPHONES AND ALL OTHER OLD MECHANICAL ITEMS. —— TOP CASH PRICES PAID —— WHOLE COLLECTIONS OR SINGLE ITEMS. WE WILL TRAVEL ANYWHERE TO COLLECT, IF YOU HAVE THEM IN HAND. PLEASE CONTACT US WITH PRICES AND PHOTOGRAPH TO: MR. PIPAT W. POOLPOL, CETO STEREO, 9 SOON THON KOSA ROAD, KLONG TOEY, BANGKOK 10110, THAILAND, TEL. (02) 249-2447,249-6253.

WANTED: POLICE SCANNER, CRYSTALS, Tube type C. B. Radios, Tram, Lafayette, send list include asking prices, must work. Looking for Lafayette HE-20-D Mint- Send to: Michael S. Sabodish, Sr. 11-A Matawan Avenue, Cliffwood, NJ 07721.

WANTED —— EVEN IF IN POOR CONDITION: A.K. 5, 9, 10, 12, 217, 165, 708, 206, 275, 944, 558, 60 KIEL; Crosley 5-38, 608, Companion, 169, Travette, Fiver, Sixty-one; RCA any Aeriola or Radiola, R-28, R-225, R-37, 140, Radiola 103 spkr.; Wurlitzer 5D; Stewart Warner 305, Philco 90, 70, 20, 507L, 30T, 10T, 49-501, 49-1401; Admiral AM 787; GE- L-50, K-60, K-64, K-63; Zenith 75, 668; Temple spkr. 15; Lewol-4L; TV's: Zenith G 2420; RCA 630TS, 8TS30, T120; Philco 48-1000, 50-702; Motorola VT-73, VT-71; Also need spkrs to fit these radios; GE - K-80; AK 559. James Baker, 704 Medway Road, Hagerstown, MD 21740-4130. P.S. Don't throw that junk away, write to me, first. Thanks.

PREMIUM PRICE PAID for Super Zenith VII. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada. 1-403-434-6257.

WANTED: WILL PAY $2.00 EACH for WW II surplus Hytron 864 tubes. Can use 50 or more. James Fred, R1, Box 41, Cutler, IN 46920.

WANTED— SHORT WAVE COIL FOR A K MODEL 145 OR JUNKER, CHASISS— WHAT HAVE YOU. RUSS- SCHOEN, E. 7340 NIETZHE ROAD, CLINTONVILLE, WI 54929

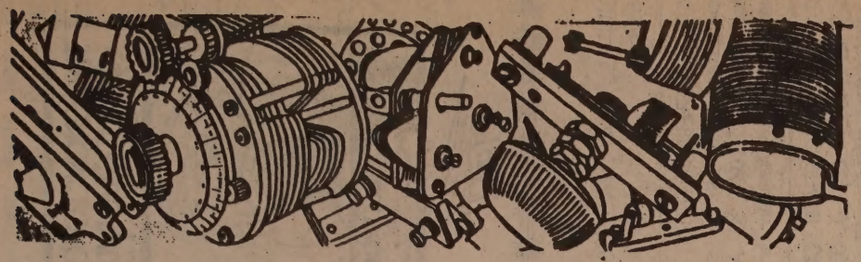
WANTED— SCHEMATIC FOR PHILCO model 89 Baby Grand. Also, I have a 5-tube radio with 25Z5, 43, 6C6 and 6K7 tubes in it. Any guesses, what the missing tube is? Tom Johnson, 215 E. 7th Street, Ames, IA 50010. (515) 232-1929.

WANTED— HOWARD - 430 -438 - GREBE CR18 RECEIVER NATIONAL A6S- SW3 SW5 NC46- 240 HALLICRAFTERS CHALLENGER SKY CHIEF- SKY BUDDY WITH CLOCK TYE DIAL. TRANSMITTERS- HALLICRAFTER HT6- HT30 STANCOR 10P THORDARSON HARVEY WELLS - COLLINS 45A—— K4UJZ, 608 W. THOMPSON LN, MURFREESBORO, TN 37130. (615) 893-5344.

WANTED— AK 55 top cover plate 5" x 14 1/4". remium rice paid for Zenith Super VII, A K 558, A K 246 or 217, also Radiola VIIB /IX. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada, T6H 0H9.

WANTEED: RIDER VOLS. 18, 19, 20 —— ARRL HANDBOOKS EDS 3, 4, 5, 7, 9, 10, 12 — QST MAY, JUNE '16 JAN. FEB. '20 (HAVE TEENS, 20'S — QST'S AVAILABLE FOR TRADE. SASE, KA7MCM VIA CALLBOOK.

WANTED::: All types police scanners, crystals, tube-type C.B.'s. Looking for Lafayette HE-20-D in mint condition. Let me know what you have. Mr. Michael Sabodish Sr., 11- A Matawan Avenue, Cliffwood, NJ 07721.



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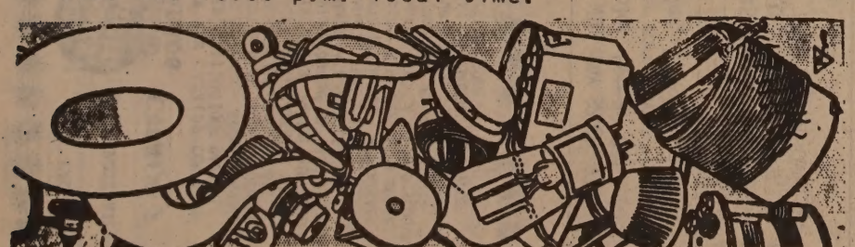
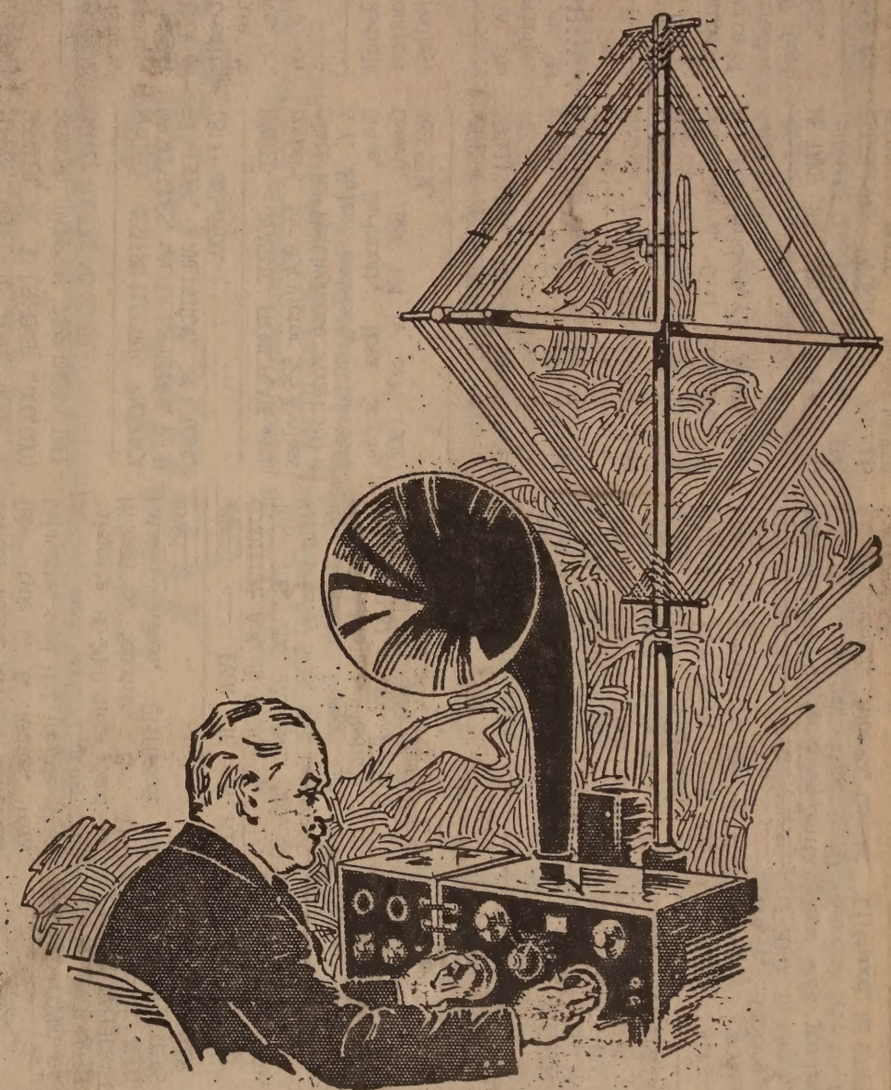


January

THE HORN SPEAKER

1988



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